Performance Data Sheet

AKA9427ZXA

General Information

Model	AKA9427ZXA	**Refrigerant**	R-404A
Test Condition	ARI	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	4.4°C (40°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
0	Btu/h	2860	2560	2040	1360	595		
	Watts	501	518	505	450	340	163	
	Amps	3.11	3.29	3.35	3.29	3.08	2.71	2.15
	Lb/h	50.0	46.8	40.1	29.6	14.8		
5	Btu/h	3390	3090	2570	1910	1150	370	
	Watts	508	529	529	498	422	289	87.5
	Amps	3.37	3.49	3.53	3.46	3.28	2.95	2.47
	Lb/h	62.2	58.3	51.6	41.6	28.0	10.4	
10	Btu/h	3890	3590	3080	2420	1680	909	177
	Watts	518	538	548	537	491	399	249
	Amps	3.59	3.66	3.67	3.61	3.46	3.20	2.81
	Lb/h	73.5	69.0	62.4	53.2	41.0	25.4	5.88
15	Btu/h	4380	4080	3570	2920	2190	1430	715
	Watts	534	550	566	571	552	498	395
	Amps	3.75	3.78	3.79	3.75	3.64	3.45	3.15
	Lb/h	84.1	79.2	72.9	64.6	54.0	40.6	24.0
20	Btu/h	4880	4580	4070	3430	2700	1960	1250
	Watts	560	569	588	606	610	589	530
	Amps	3.87	3.87	3.87	3.86	3.80	3.69	3.49
	Lb/h	94.5	89.4	83.4	76.2	67.3	56.3	42.8
25	Btu/h	5410	5100	4600	3950	3230	2500	1810
	Watts	602	599	617	644	668	677	658
	Amps	3.93	3.91	3.92	3.94	3.94	3.92	3.84
	Lb/h	105	99.8	94.4	88.5	81.5	73.0	62.7
30	Btu/h	5980	5670	5160	4520	3810	3090	2410
	Watts	663	644	658	691	731	765	783
	Amps	3.93	3.91	3.94	4.00	4.07	4.14	4.19
	Lb/h	116	111	106	102	96.7	91.0	84.0

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	-9.806250E+03	7.436968E+02	1.169380E-01	3.174481E+00
C2	1.292210E+02	6.775958E+01	3.447997E-01	8.580239E+00

C3	3.998396E+02	-2.193680E+01	3.280951E-02	8.723194E-01
C4	-7.548836E-01	5.384782E-01	-2.349455E-03	-5.248648E-02
C5	-5.022656E-01	-1.651981E+00	-5.737185E-03	-1.276849E-01
C6	-3.836216E+00	3.993808E-01	3.100277E-04	2.157567E-03
C7	2.484349E-02	5.648202E-03	-2.823316E-06	4.730192E-04
C8	-2.451519E-03	-7.246221E-03	1.827354E-05	3.263400E-04
C9	3.287704E-03	1.030222E-02	2.666536E-05	6.560567E-04
C10	1.022109E-02	-2.038541E-03	-3.147924E-06	-7.184083E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

AKA9427ZXA

General Information

Model	AKA9427ZXA	**Refrigerant**	R-404A
Test Condition	ARI	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
20	Btu/h	5540	4800	4050	3290	2520	1730	915
	Watts	665	630	595	559	521	480	436
	Amps	8.08	7.89	7.70	7.51	7.30	7.08	6.85
	Lb/h	98.6	87.2	75.7	64.0	51.9	39.4	26.3
25	Btu/h	6330	5540	4760	3990	3220	2440	1650
	Watts	679	659	640	621	601	580	557
	Amps	8.18	8.08	7.99	7.90	7.80	7.70	7.59
	Lb/h	111	100	90.0	79.7	69.3	58.8	47.9
30	Btu/h	7130	6270	5440	4630	3840	3040	2250
	Watts	682	674	667	663	659	655	652
	Amps	8.21	8.19	8.18	8.17	8.17	8.18	8.18
	Lb/h	124	113	103	93.9	84.7	75.7	66.6
35	Btu/h	7980	7040	6130	5260	4410	3580	2770
	Watts	677	678	682	689	699	711	723
	Amps	8.20	8.23	8.29	8.36	8.44	8.54	8.63
	Lb/h	137	127	117	108	99.1	91.0	83.1
40	Btu/h	8930	7870	6870	5910	4990	4100	3240
	Watts	668	675	688	705	725	749	775
	Amps	8.15	8.23	8.34	8.48	8.63	8.80	8.99
	Lb/h	153	141	131	122	113	106	98.4
45	Btu/h	10000	8810	7680	6610	5600	4630	3700
	Watts	658	670	688	712	742	775	813
	Amps	8.09	8.21	8.36	8.55	8.76	8.99	9.25
	Lb/h	171	159	147	137	128	120	113
50	Btu/h	11300	9900	8630	7420	6280	5210	4180
	Watts	653	666	688	716	752	793	840
	Amps	8.05	8.19	8.37	8.59	8.85	9.13	9.45
	Lb/h	193	179	166	155	145	136	129

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	6.892341E+03	1.181170E+03	1.102395E+01	1.611649E+02
C2	2.337750E+02	-6.431059E+00	-4.025143E-02	1.547987E+00

C3	-5.560386E+01	-8.864861E+00	-5.196057E-02	-1.407976E+00
C4	2.094203E-01	-2.483170E-01	-1.478245E-03	2.255236E-03
C5	-1.011794E+00	2.641383E-01	1.634810E-03	1.186363E-02
C6	-2.850234E-02	-1.993162E-03	-1.043212E-05	-5.679021E-04
C7	5.196042E-02	5.336921E-03	2.808405E-05	1.156195E-03
C8	-4.753218E-02	-4.926317E-03	-2.594188E-05	-1.060715E-03
C9	1.353771E-02	1.415322E-03	7.458724E-06	3.029540E-04
C10	-9.550581E-04	-1.085897E-04	-5.733081E-07	-2.199168E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature